




MULTIPLE TOUCH SWITCH DEVICE

Patent Number:  [JP1125871](#)
Publication date: 1989-05-18
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Requested Patent:  [JP5196524](#)
Application Number: JP19880225513 19880908
Priority Number(s):
IPC Classification: H01L29/84; G01L1/18; G01L1/20; G10H1/053; G10H1/34
EC Classification:
Equivalents: JP1976280C, JP1993198C, JP2108444C, JP5022398B,  [JP5197381](#), JP6058276B, JP6101567B

Abstract

PURPOSE: To vary the contact resistance in response to pressure fluctuations by forming a resistor between members of at least one pair of conductors of a pressure-sensitive semiconductor layer in which first and third conductors and second and fourth conductors are respectively paired.

CONSTITUTION: A conductor section 13 composed of first and second contact conductors 14 and 15 spatially separated from each other is arranged on one surface of a substrate member 12. In addition, insulating spacers 18 are fitted to the member 12 around the conductor section 13 and a cover 19 is put on the spacers 18 so as to form a space 24 between the conductor section 13 and the cover 19. That is, the cover 19 is stuck or mechanically fixed to the tops of the spacers 18 so that a pressure-sensitive resistance layer 22 can always be separated spatially (namely, the switch is normally-open) from the conductor section 13. Therefore, the resistance value of a contact resistor can be changed in response to pressure fluctuation.

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